

April 2015 Climate Review for Puerto Rico and the U.S. Virgin Islands

...Based on data received until May 10th...



Synopsis

A fair and stable weather pattern prevailed across the local islands during April with mostly clear skies and a few locally induced showers. This pattern resulted in an average rainfall total of 3.33 inches, which is 1.52 inches below normal for Puerto Rico.

In terms of temperature, the islandwide mean temperature was 76.9°F which is approximately 1.1°F warmer than the 30-year. The highest maximum temperature recorded this month was 98°F at Levittown on 04/27, and the lowest minimum temperature was 50°F on 4/22 at Toro Negro. Overall, April can be described as a dry and hot month islandside.

Statistically, the average maximum temperature at the Luis Muñoz Marin International Airport (TJSJ) in San Juan was approximately 1.6°F warmer than the 30-year. The average temperature was below normal 20% of the month; while normal temperatures were observed 30% of the month. Not surprising, April 2015 ended as the 4th warmest April on record at TJSJ.

Across the U.S. Virgin Islands, the mean temperature at Henry E. Rohlsen Airport (TISX) in Saint Croix and Cyril King Airport (TIST) in Saint Thomas was 80.8 and 80.4°F, which is 0.8 above normal and 0.2°F below normal respectively. In terms of precipitation, a rainfall total of 1.38 inches was reported at TJSJ, which is 3.30 inches below normal. Monthly rainfall totals at TIST and TISX were 1.08 and 0.59 inches, which are 1.66 and 1.54 inches below normal respectively. April 2015 ended as the 8th and 7th driest April on record at TIST and TISX.





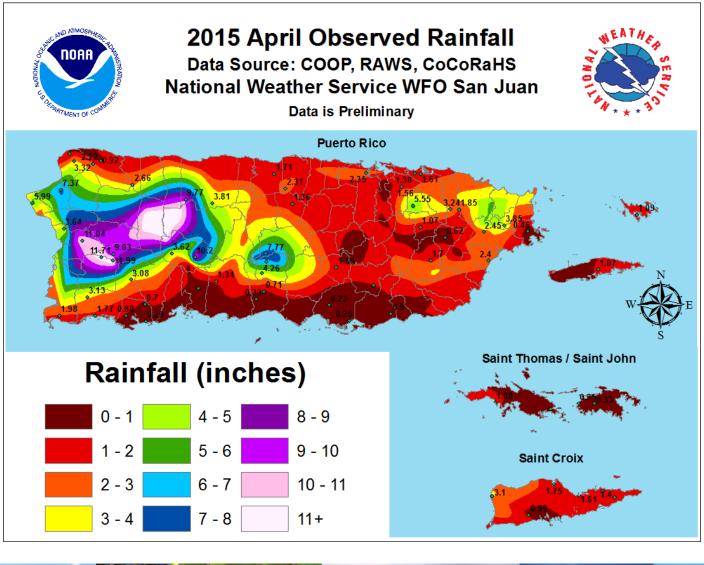
Data retrieved from AHPS, RAWS, CoCoRaHS, COOP stations and primary climatological data sites RAINFALL

Islandwide climate record period: 1940 to 2015

San Juan Metro Area climate record period: 1898 to 2015 (Primary climatological site) Cyril E. King Airport/St Thomas climate record period: 1953 to 2015 (Primary climatological site) Henry E. Rohlsen Airport/St Croix climate record period: 1951 to 2015 (Primary climatological site)

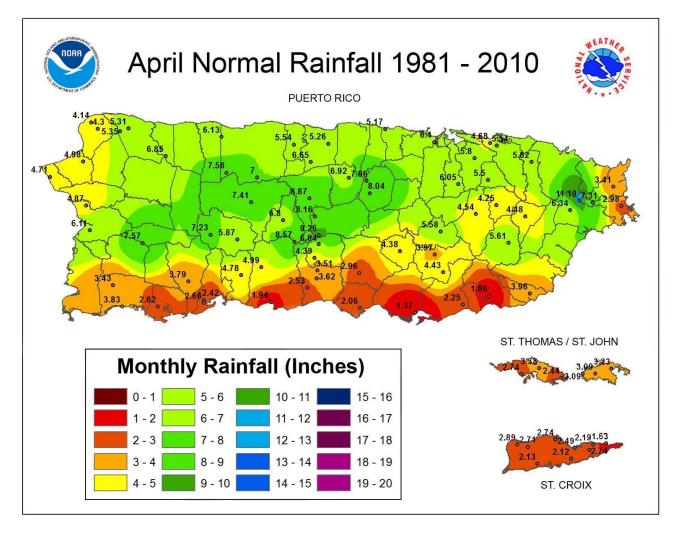
Following WMO criteria: Less than 10% of missing values

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http://www.srh.noaa.gov/sju/?n=pr_usvi_normals

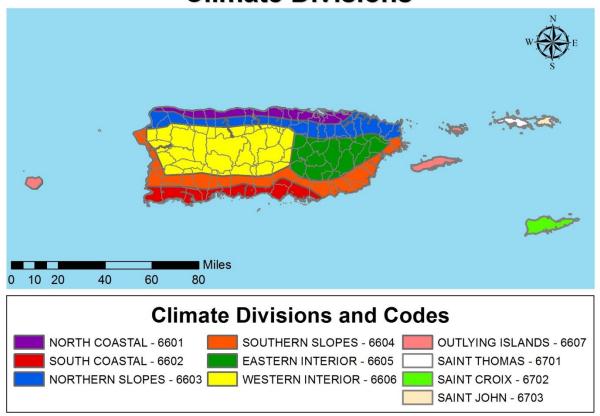








Puerto Rico and U.S. Virgin Islands Climate Divisions



North Coastal	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	3.98	3.81	2.73	1.82		\$	>					
NORMAL	4.06	2.96	2.87	5.16	/							
%PON PER MONTH	98	129	95	35			410					
ACCUMULATED	3.98	7.79	10.52	12.34			=					
NORMAL												
ACCUMULATION	4.06	7.02	9.89	15.05			-58					
% PON ACCUMULATED	98	111	106	82		!! /	-					

South Coastal	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
OBSERVED	1.92	1.85	1.79	1.18		-						
NORMAL	1.62	1.45	1.78	2.76	★ ×							
%PON PER MONTH	119	128	101	43								
ACCUMULATED NORMAL	1.92	3.77	5.56	6.74	/FC))						
ACCUMULATION	1.62	3.07	4.85	7.61								
% PON ACCUMULATED	119	123	115	89	J <u></u> .U)		\\					



Northern Slopes	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	4.32	3.80	1.98	2.83		\$	>					
NORMAL	4.20	3.03	3.23	5.26	/							
%PON PER MONTH	103	125	61	54			46					
ACCUMULATED	4.32	8.12	10.10	12.93			=					
NORMAL					<u> </u>							
ACCUMULATION	4.20	7.23	10.46	15.72			-58					
% PON ACCUMULATED	103	112	97	82		<u>/</u>						

Southern Slopes	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	2.39	2.84	2.00	1.47		4						
NORMAL	2.00	1.86	2.28	3.91	★ ×							
%PON PER MONTH	120	153	88	38								
ACCUMULATED NORMAL	2.39	5.23	7.23	8.70	/FC))						
ACCUMULATION	2.00	3.86	6.14	10.05								
% PON ACCUMULATED	120	135	118	87	راجر)	<u>/A</u> \ \	\					



Eastern Interior	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	4.34	5.83	2.70	1.89		\$	>					
NORMAL	4.69	3.92	3.90	5.26	/							
%PON PER MONTH	93	149	69	36			46					
ACCUMULATED	4.34	10.17	12.87	14.76			7					
NORMAL												
ACCUMULATION	4.69	8.61	12.51	17.77			-53					
% PON ACCUMULATED	93	118	103	83		2. /	-					

Western Interior	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
OBSERVED	3.60	5.06	3.79	6.65								
NORMAL	3.90	2.75	3.57	6.77	★×							
%PON PER MONTH	92	184	106	98								
ACCUMULATED NORMAL	3.60	8.66	12.45	19.10	/FC))						
ACCUMULATION	3.90	6.65	10.22	16.99								
% PON ACCUMULATED	92	130	122	112			\					



Units: inches

2015 Average Rainfall Accumulation per Climate Zones

Mainland PR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	3.45	4.15	2.71	3.33								
NORMAL	3.41	2.66	2.94	4.85		/	-35					
%PON PER MONTH	101	156	92	69		/						
ACCUMULATED NORMAL	3.45	7.60	10.31	13.64		×.						
ACCUMULATION	3.41	6.07	9.01	13.86		3						
% PON ACCUMULATED	101	125	114	98	X ^							

Saint Thomas/Saint John	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	1.46	3.92	1.26	0.54		4	>					
NORMAL	2.72	1.71	1.47	2.92	/							
%PON PER MONTH	54	229	86	18			ā16					
ACCUMULATED	1.46	5.38	6.64	7.18			77.					
NORMAL												
ACCUMULATION	2.72	4.43	5.90	8.82								
% PON ACCUMULATED	54	121	113	81								

Saint Croix	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
OBSERVED	2.17	1.66	0.96	1.93		4						
NORMAL	2.00	1.61	1.53	2.47	★ ×							
%PON PER MONTH	109	103	63	78								
ACCUMULATED	2.17	3.83	4.79	6.72	//F(C))						
NORMAL				UU								
ACCUMULATION	2.00	3.61	5.14	7.61	0.0.0	<u></u>						
% PON ACCUMULATED	109	106	93	88	رالـال	<u>/A</u> \ \	\ 					

These data are preliminary and have not undergone final quality control by the National Centers for **Environmental** Information / NCEI/. Therefore, these data are subject to revision. Normal values are based on active COOP stations. Final and certified climate data can be accessed at www.ncdc.noaa.gov. Top 5 Wettest Top 5 Driest Islandwide

		_		
Year	Inches		Year	Inches
Apr-03	12.38		Apr-97	0.89
Apr-60	10.82		Apr-68	1.56
Apr-02	10.62		Apr-84	1.57
Apr-05	8.82		Apr-49	1.63
Apr-63	8.58	×	Apr-75	1.83

Mean Rainfall: 4.85 inches

Total rainfall accumulation: 3.33 inches





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San Juan Metro Area

Year	Inches		Year	Inches
2005	15.0		1997	0.08
1915	13.17	3	1984	0.28
1988	10.37	7	1935	0.42
1940	10.23		1968	0.5
2006	10.06	\star	1928	0.83

Mean Rainfall: 4.68 inches

Total rainfall accumulation: 1.38 inches





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Top 5 Wettest Top 5 Driest

Cyril E. King Airport St Thomas

Year	Inches		Year	Inches
2003	11.2		1953	0.23
1978	6.66	3	1985	0.48
1986	6.52		2004	0.54
2007	6.22		2000	0.57
1960	4.75	\star	1991	0.67

Mean Rainfall: 2.74 inches

Total rainfall accumulation: 1.08 inches

April 2015 ended as the 8th driest April on record.





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Top 5 Wettest Top 5 Driest
Henry E. Rohlsen Airport St Croix

Year	Inches		Year	Inches
2003	8.53		1988	Т
1983	8.24	3	1997	0.02
1952	5.38		2005	0.1
1960	5.17		1953	0.22
1956	4.89	\star	2004	0.31

Mean Rainfall: 2.13 inches

Total rainfall accumulation: 0.59 inches.

April 2015 ended as the 7th driest April on record.





Wettest Days

Station	Inches	Date
CALERO CAMP	2.90	4/12/2015
MARICAO 2 SSW	2.88	4/7/2015
TRUJILLO ALTO 2 SSW	2.82	4/6/2015
ARECIBO OBSY	2.42	4/12/2015
HACIENDA CONSTANZA 2W	2.23	4/11/2015



April 2015 Highlights for Primary Climatological Data Sites **Wettest** Days

	The second secon
Inches	Date
0.46	4/10/2015
0.29	4/6/2015
0.17	4/9/2015
0.11	4/17/2015
0.1	4/13/2015

,		,
1	Inches	Date
	0.57	4/4/2015
	0.18	4/7/2015
٥	0.13	4/12/2015
	0.09	4/5/2015
	0.03	4/25/2015

Henry E. Rohlsen AP/St. Croix

	•
Inches	Date
0.39	4/18/2015
0.10	4/7/2015
0.05	4/8/2015
0.03	4/3/2015
0.01	4/23/2015





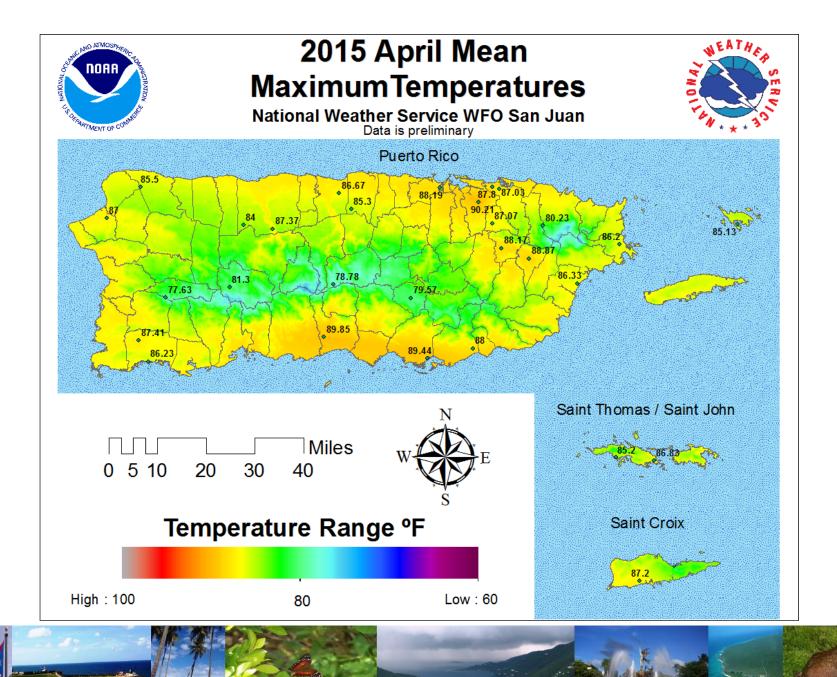


Data retrieved from COOP stations and primary climatological data sites **TEMPERATURE**

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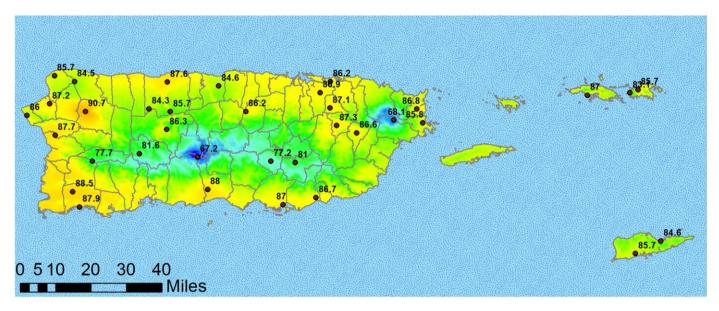


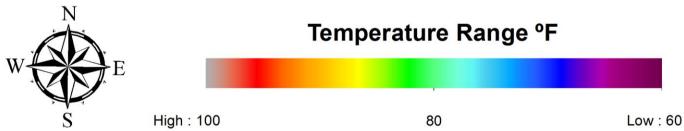


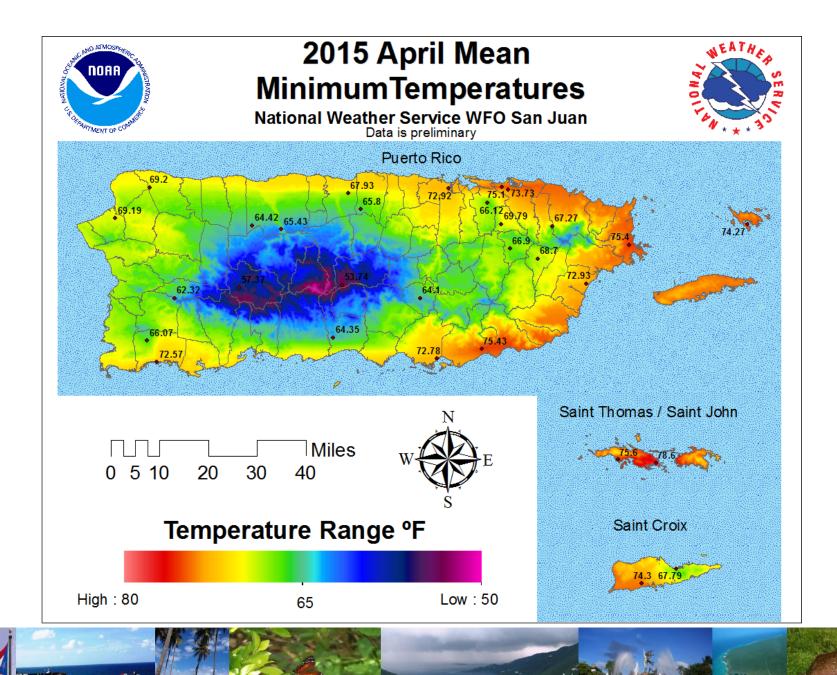
April Normal Maximum Temperatures 1981-2010



National Weather Service WFO San Juan





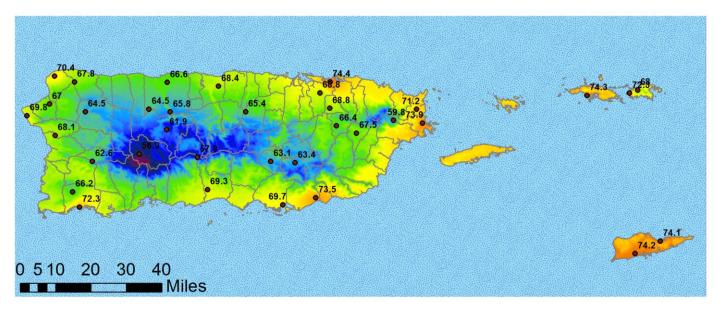


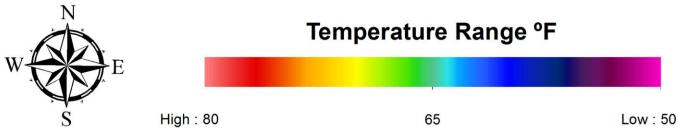


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Top 5 Warmest Top 5 Coolest

Islandwide

Year	₽F		Year	ºF
Apr-69	77.9		Apr-41	68.9
Apr-87	77.9		Apr-40	69.6
Apr-58	77.7		Apr-42	73.0
Apr-05	77.5	- 🖈	Apr-68	73.3
Apr-10	77.1		Apr-44	73.4

Mean Temperature: 75.8 °F

Apr 2015 mean temperature 76.9 °F

Following are not included because do not WMO meet criteria, 56, 57, 59, 63, 67, 79, 80.

SAN JUAN

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Top 5 Warmest Top 5 Coolest
San Juan Metro Area

Year	₽F		Year	ºF
2014	82.5		1922	74.3
1984	81.8		1921	74.6
1983	81.7		1938	74.7
2015	81.5	- 4	1945	75.0
2005	81.5		1913	75.2

Mean Temperature: 80.3 °F

April 2015 ended as the 4th warmest April on record.



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Top 5 Warmest

Top 5 Coolest

Cyril E. King Airport St Thomas

_			
Year	ºF	Year	o₽
1993	84.0	1955	77.4
1995	83.2	2008	78.2
1994	83.2	1956	78.4
1979	82.4	 1954	78.4
1992	82.1	1976	78.6

Mean Temperature: 80.6 °F

Apr 2015 mean temperature 80.4 °F





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Year

1958

1972

1987

2000

2005

Top 5 Warmest Top 5 Coolest

ºF

82.0

81.3

81.3

81.3

81.2

Henry E. Rohlsen Airport St Croix

_		
	Year	ºF
	1982	75.7
	1955	76.6
	1954	77.3
* • •	1979	77.9
	1956	78.5

Mean Temperature: 80.0 °F

Apr 2015 mean temperature 80.8 °F.

April 2015 ended as the 7th warmest April on record.





April 2015 Highlights

Highest **Maximum** Temps

Station	Value (ºF)	Date
TOA BAJA LEVITOWN	98	4/27/2015
MANATI 2 E	96	4/30/2015
ISABELA SUBSTN	95	4/30/2015
WFO SAN JUAN	95	4/29/2015
DOS BOCAS	94	4/30/2015

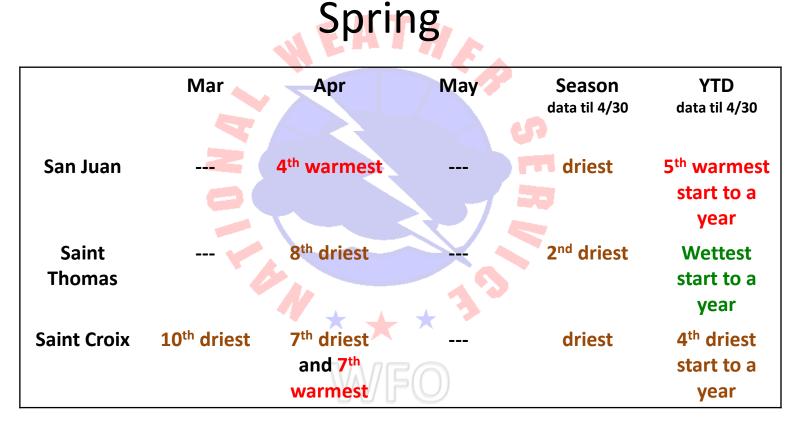
Lowest Minimum Temps

Station	Value (ºF)	Date
TORO NEGRO FOREST	50	4/22/2015
MARICAO 2 SSW	58	4/22/2015
LAJAS SUBSTATION	61	4/4/2015
AIBONITO	61	4/5/2015
TRUJILLO ALTO 2 SSW	61	4/6/2015





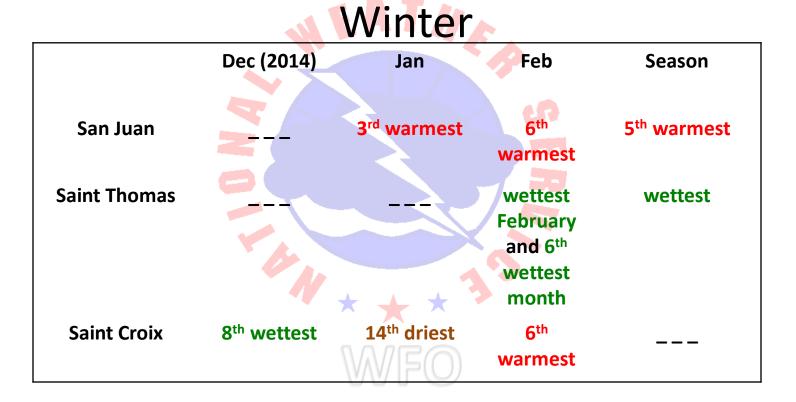
2015 Highlights for Primary Climatological Data Sites







2015 Highlights for Primary Climatological Data Sites







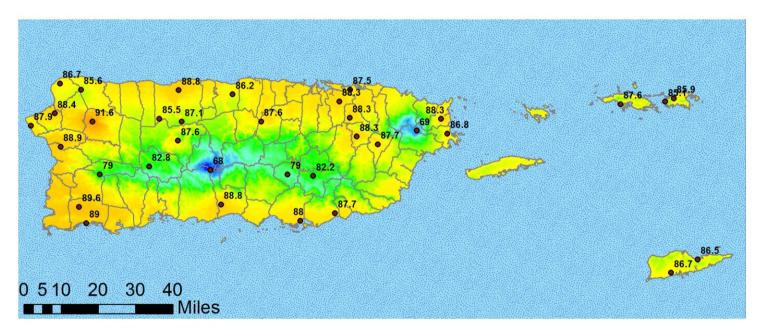


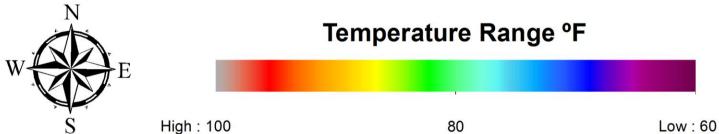


May Normal Maximum Temperatures 1981-2010



National Weather Service WFO San Juan



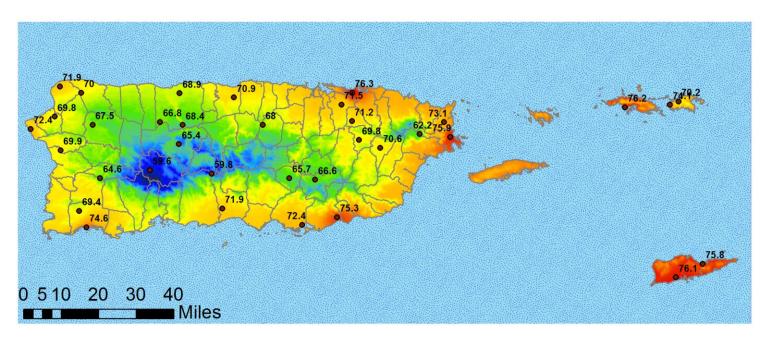


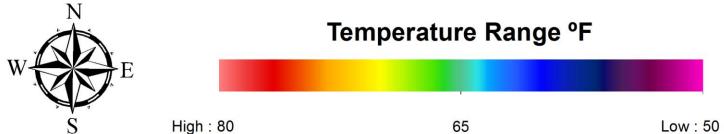


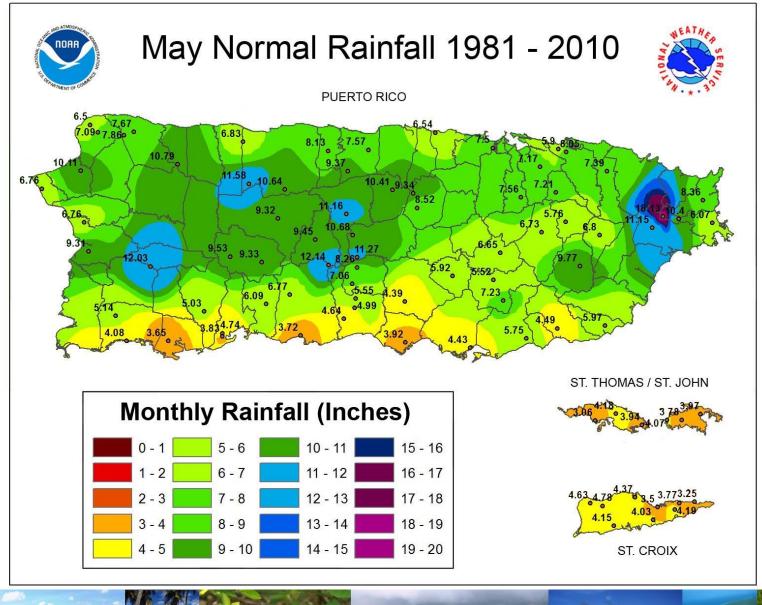
May Normal Minimum Temperatures 1981-2010



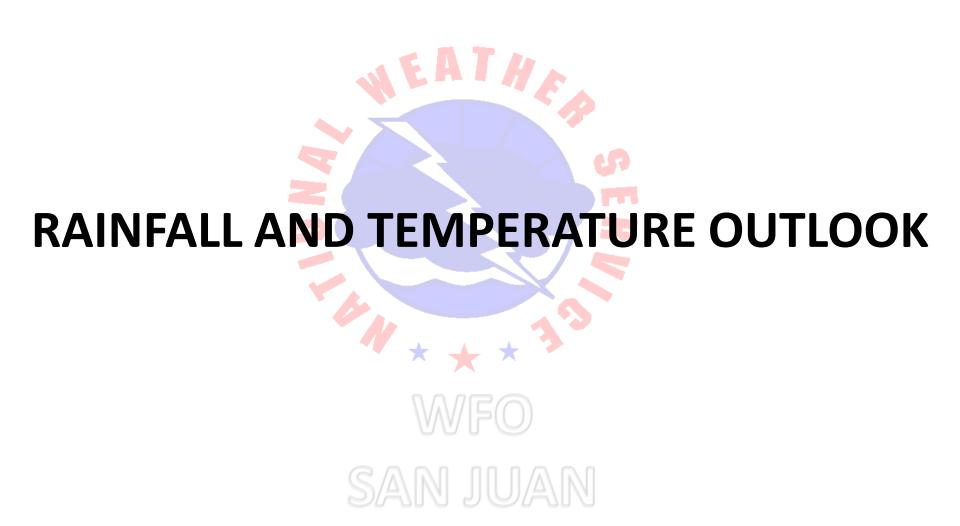
National Weather Service WFO San Juan

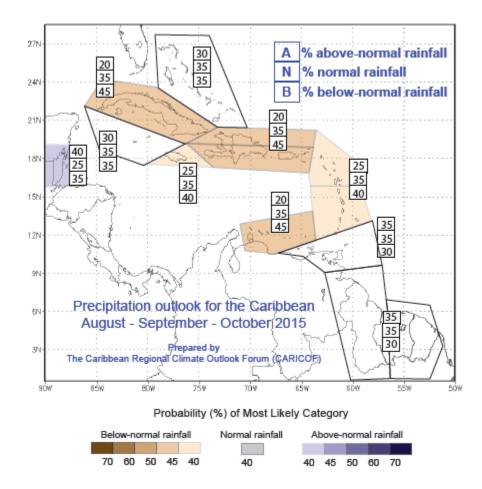






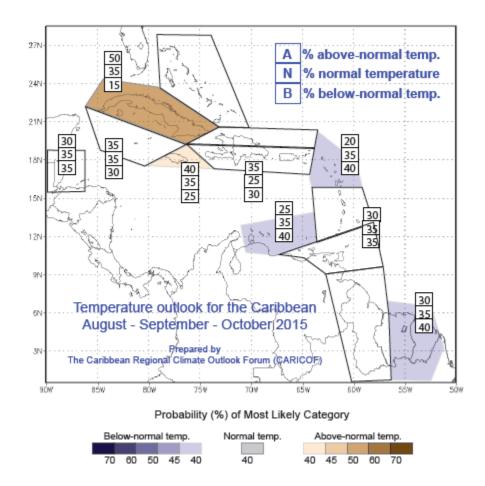






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